

NOVEMBER/DECEMBER 2025

23UBC53 — MEDICAL LAB TECHNOLOGY

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

Explain the significance of CSF examination in diagnosis.

2. Identify two non-infectious wastes from hospitals.
3. Justify the role of Rh factor in transfusion safety.
4. List two hazards of blood transfusion.
5. Interpret the use of HbA 1C in diabetes care.
6. Relate serum creatinine to kidney function.
7. Describe the principle of the Widal test.
8. Indicate the purpose of the Lepramin skin test.
9. Characterize hyperthyroidism briefly.
10. Illustrate one enzyme with a diagnostic role.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Outline urine specimen collection, transport, and analysis.

Or

- (b) Classify hospital waste with two examples each.

12. (a) Demonstrate ABO blood group determination.

Or

- (b) List steps in cross matching.

13. (a) Discuss estimation and significance of blood urea.

Or

- (b) Illustrate enzymatic estimation of blood glucose.

14. (a) Summarize ASO and RA tests in diagnosis.

Or

- (b) Interpret ELISA principle and applications.

15. (a) Analyze cardiac enzymes in myocardial infarction.

Or

- (b) Assess thyroid hormone assays in clinical use.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Analyze color coding in biomedical waste segregation with examples.

17. Evaluate screening tests in blood banking for transfusion safety.

18. Examine biochemical investigations in diagnosing renal disorders.

19. Interpret the complement fixation test in infectious disease diagnosis.

20. Appraise enzyme and hormone assays in detecting endocrine disorders.

